# CS 255 System Design Document Template

This template lays out all the different sections that you need to complete for Project Two. Each section has guidance to prompt your thinking. You will need to continually reference the interview transcript as you work to make sure that you are addressing your client’s needs. There is no required length for the final document. Instead the goal is to complete each section based on what your client’s needs are. Remove this note when you are finished, and replace all bracketed text with the relevant information.

## UML Diagrams

### UML Use Case Diagram

*A diagram of a driver's system

AI-generated content may be incorrect.*

### UML Activity Diagrams

A screenshot of a diagram

AI-generated content may be incorrect.

### UML Sequence Diagram

*A diagram of a program

AI-generated content may be incorrect.*

### UML Class Diagram

*A diagram of a computer

AI-generated content may be incorrect.*

## Technical Requirements

Hardware (Host)

* At least one dedicated server for hosting the system
* Backup storage in case of crash, server instability
* Computer interface
* Internet service provider with adequate service plan

Hardware (Client)

* Internet connected device (Computer, laptop, cellphone)
* Internet service
* Consistent power source
* Devices must be compatible with accessibility features

Software (Host)

* Server operating system to host DriverPass
* Security software for sensitive data
* Payment processing software or host
* Server must be capable of handling database queries to maintain 2-5 second response time

Software (Client)

* Web browser for accessing DriverPass, running appropriate web browser.

Development Tools

* Computers with capability to run programming and database software
* Internet access for updates, email and version control
* Monitoring tools for system performance and security

Tools and services

* Vehicles owned by Instructors or Students
* Insurance for instructors and students